

Claims

1. A method for dispersing pulp, especially pulp containing waste paper, that contains solid material and a liquid phase, in which method ground pulp mass is fed between the blade surfaces (3) of a dispersing device that are brought in a rotating movement in relation to one another, characterized in that the dispersing event takes place in a narrow opening (5) between the conical surfaces (3), at the outlet end (6) of which there is arranged a running wheel (7) acting as pump by which the pulp is pumped out of the dispersing device by centrifugal force.
2. A method according to claim 1, characterized in that the inner cone of the dispersing device acts as rotor and the outer cone acts as stator.
3. A method according to one of the preceding claims, characterized in that said running wheel (7) is fixed on the cone acting as rotor in such a way that it diverts the flow of mass away from the axis of the cone.
4. A method according to one of the preceding claims, characterized in that the dilution of pulp at the outlet end (6) of the blade opening (5) is accomplished by fluid introduced to the intake side of the running wheel (7).
5. A method according to claim 4, characterized in that the density of the pulp to be dispersed is before dilution 15-35%.
6. A method according to claim 4 or claim 5, characterized in that the density of the pulp is after dilution 4-12%.
7. A method according to one of the preceding claims, characterized in that the pulp containing waste paper is dispersed in order to release printing ink and/or impurities from the fibers of the pulp.
8. A dispersing device for processing pulp, especially pulp containing waste paper, the dispersing device comprising mutually opposed working surfaces (2) fitted with blades that may be brought into a revolving motion in relation to one another, a feed channel (1) for introducing pulp to the blade opening between the blade surfaces as well as an outlet chamber (6) for removal of the dispersed pulp, characterized in that its blade surfaces (2) are conical and that it comprises additionally a running wheel (3) situated at the outlet end of the blade opening.

9. A dispersing device according to claim 8, characterized in that it comprises one or more feed channels (7) for the diluting fluid.

*Sub a*¹⁴
10. A dispersing device according to claim 8 or claim 9, characterized in that the conical surface is at a 10-75° angle to the axis of the cone, preferably at a 10 - 30° angle to the axis of the cone.

11. A dispersing device according to one of claims 8 - 10, characterized in that the blades (9) are arranged on said conical surfaces such that they overlap.

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12. A dispersing device according to one of claims 8 - 11, characterized in that the blade surfaces of the device consist of cylindrical surfaces and conical surfaces that are in extension to one another.

*Add a*¹⁷